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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/047,613	01/15/2002	Karl Joachim Ebeling	M&N-IT 213	5759
24131	7590 03/14/2005		EXAM	INER
LERNER AND GREENBERG, PA			RODRIGUEZ, ARMANDO	
P O BOX 2480 HOLLYWOOD, FL 33022-2480		•	ART UNIT	· PAPER NUMBER
	,		2828	
			DATE MAILED: 03/14/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary		Application No.	Applicant(s)			
		10/047,613	EBELING ET AL			
		Examiner	Art Unit			
		ARMANDO RODRIGUEZ	2828			
Period f	The MAILING DATE of this communication apports.	pears on the cover sheet with	the correspondence address			
THE - Extra afte - If th - If N - Fail	MORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1 r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl o period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailin ned patent term adjustment. See 37 CFR 1.704(b).	I 36(a). In no event, however, may a reply within the statutory minimum of thirty (will apply and will expire SIX (6) MONTHE, cause the application to become ABAN	ly be timely filed  30) days will be considered timely. IS from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on <u>06 D</u>	<u> Pecember 2004</u> .				
2a)□	This action is <b>FINAL</b> . 2b) This action is non-final.					
3)[	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	tion of Claims					
5)⊠ 6)⊠ 7)□ 8)□	Claim(s) 15-19 and 21-39 is/are pending in the 4a) Of the above claim(s) is/are withdra Claim(s) 15-19,21-29 and 32-39 is/are allowed Claim(s) 30 and 31 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/out tion Papers	wn from consideration.				
	·					
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>06 December 2004</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The specification is objected to be specification to the specification is objected to be specification.	are: a)⊠ accepted or b)⊡ c drawing(s) be held in abeyance tion is required if the drawing(s)	e. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).			
Priority	under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign	s have been received. s have been received in Apprintly documents have been re u (PCT Rule 17.2(a)).	olication No eceived in this National Stage			
Attachmer	nt(s)					
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2)	ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	Paper No(s)/I	Mail Date rmal Patent Application (PTO-152)			

### **DETAILED ACTION**

## Response to Amendment

Claims 1-14,20 have been canceled.

Claims 15-19,21-39 are pending.

The objection to the drawings are withdrawn based on applicant's amendment o the drawings filed on December 6, 2004.

The 35 USC 102 rejection of claims 15-19,23-29,32,33,36-39 has been withdrawn based on applicant's amendment filed on December 6, 2004.

The indication of allowable subject matter of claims 30 and 31 is withdrawn based on the prior art reference to Vakhsoori (PN 5,426,657).

# Double Patenting

Claim 22 is objected to under 37 CFR 1.75 as being a substantial duplicate of claim 21. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claim 37 is objected to under 37 CFR 1.75 as being a substantial duplicate of claim 15. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Application/Control Number: 10/047,613

Art Unit: 2828

Claim 39 objected to under 37 CFR 1.75 as being a substantial duplicate of claim 38. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Regarding the preamble of claims 37,38 and 39 in accordance with MPEP 2111.02 Weight of Preamble:

The preamble <u>does not</u> breathe life and meaning into the claim and is not essential to point out the invention defined by the claim <u>but only merely</u> recites the intended use of the structure. Therefore, no patentable weight has been given to the recited "optical system" of claim 37; the recited "compact disc player" of claim 38; and the recited "data transmission system" of claim 39.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 30 and 31 are rejected under 35 U.S.C. 102(b) as being anticipated by Vakhshoori (PN 5,426,657).

Regarding claim 30,

Figure 1 illustrates a vertical cavity surface-emitting laser (VCSEL) [applicant's vertical resonator] having a top surface (16) [applicant's beam profile shaper] with

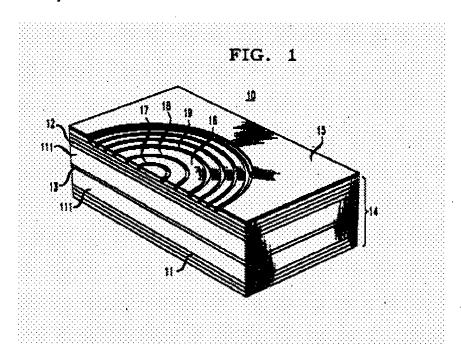
Application/Control Number: 10/047,613

Art Unit: 2828

multiple trenches (17,18,19...) [applicant's relief structure] (column 2 lines 32-35 and lines 40-44), which affect the reflectivity for selecting the transverse mode [applicant's mode selection] (column 2 lines 54-58).

Regarding claim 31,

Column 2 lines 44-47, discloses the trenches as Fresnel zones [applicant's Fresnel lens].



Allowable Subject Matter

Claims 15-19,21-29,32-39 are allowed.

The following is an examiner's statement of reasons for allowance:

After reviewing applicant's amendment, arguments and conducting an updated search none of the cited prior arts alone or in combination discloses the claimed laser of independent claims 15,21,22,36,37,38,39.

Regarding claims 15-19,23-29, 32-35, 36,37,

Application/Control Number: 10/047,613

Art Unit: 2828

None of the cited prior arts discloses the claimed laser with the recited limitations in particular having a bleaching absorber layer thickness approximately equal to a quarter of a material wavelength.

Regarding claims 21, 22,

None of the cited prior arts discloses the claimed laser with the recited limitations in particular having a bleaching absorber layer thickness greater than a quarter of a material wavelength.

Regarding claims 38,39,

None of the cited prior arts discloses the claimed laser with the recited limitations in particular having an absorber layer to bleach by decoloring and having a thickness approximately equal to a quarter of a material wavelength.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ARMANDO RODRIGUEZ whose telephone number is 571-272-1952. The examiner can normally be reached on 9:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MINSUN HARVEY can be reached on 571-272-1835. The fax phone

Art Unit: 2828

number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ARMANDØ RODRIGUEZ

Examiner
Art Unit 2828

MINSUN HARVEY SUPERVISOR Art Unit 2828

AR/MH